

Appendix A

Test Setups (Photographs)

NOTE: All photographs are representative of setup for maximum emissions.



Photograph of Test Setup:

<u>Output Power and The Ratio of the Peak Excursion of the Modulation Envelope to the Peak Transmit Power</u>





Photograph of Test Setup: 26 dB Bandwidth

Photograph not available. SeeTechnical Documentation, page TD112 for test setup.

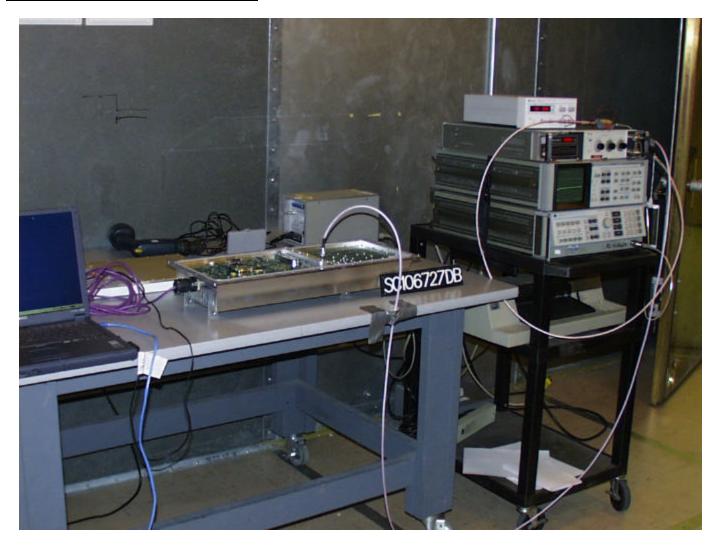


Photograph of Test Setup: Power Density

Photograph not available. SeeTechnical Documentation, page TD112 for test setup.

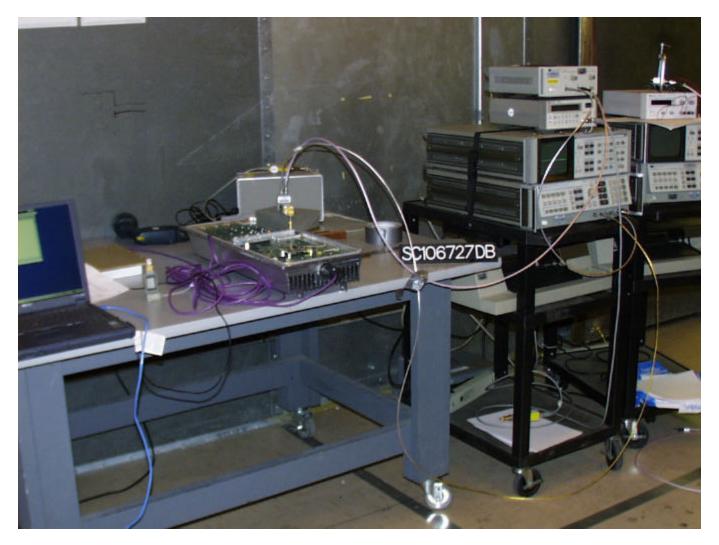


Photograph of Test Setup: Out of Band Antenna Conducted Emissions





Photograph of Test Setup: Out of Band Antenna Conducted Emissions





Photograph of Test Setup: Band Edge Antenna Conducted Emissions

Photograph not available. SeeTechnical Documentation, page TD112 for test setup.



Photograph of Test Setup: Radiated Emission in Restricted Bands and Radiated Emission from Receiver L.O.



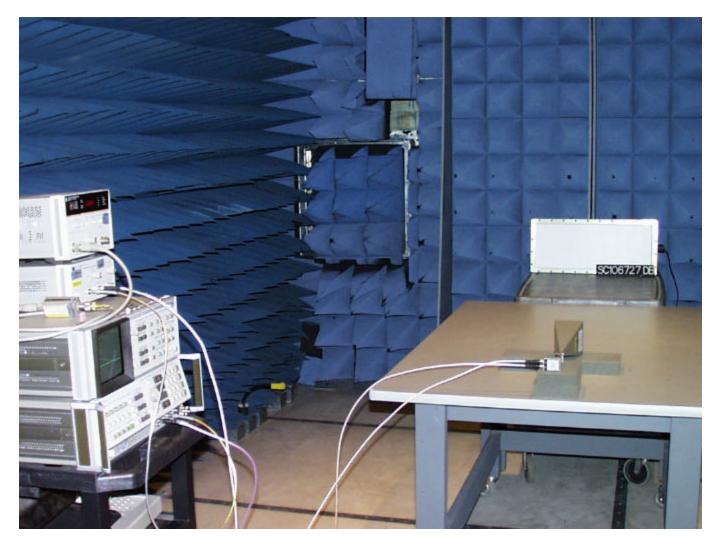


Photograph of Test Setup: Radiated Emission in Restricted Bands and Radiated Emission from Receiver L.O.





Photograph of Test Setup: Radiated Emission in Restricted Bands



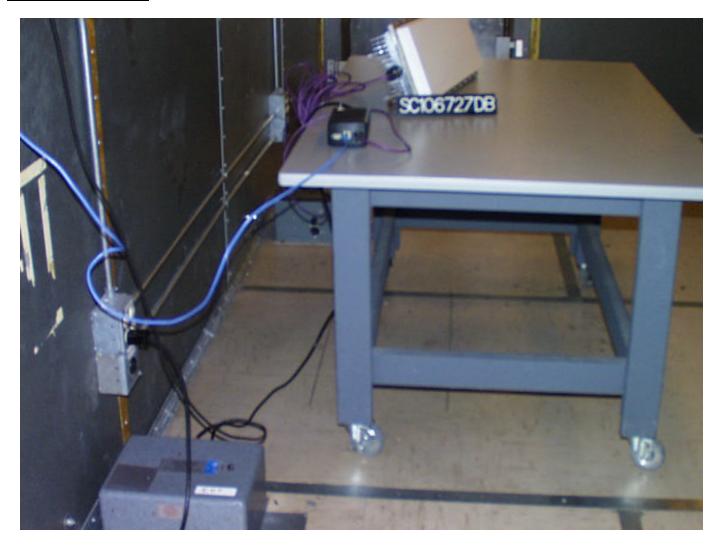


Photograph of Test Setup: AC Conducted Emission





Photograph of Test Setup: AC Conducted Emission



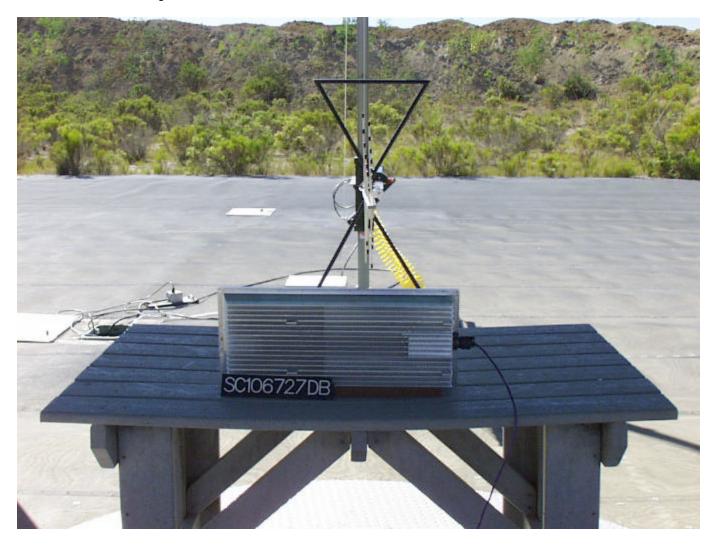


Photograph of Test Setup: Radiated Emission from Digital Part





Photograph of Test Setup: Radiated Emission from Digital Part





Appendix B

Product Information Form(s)



General Equipment below.	Description NOTE: This information will be input into your test report as shown						
EUT Description:	Point -to-multipoint Base Station with integrated antenna of 18+/-1 dBi gain.						
EUT Name:	UNII Radio FCC ID: HZB-US58-B60						
Model No.:	40400-XX Serial No.: ENGR UNIT #1						
Product Options:	mdl 40400: 20, 30, 40, & 60Mbps; mdl 40400: 20Mbps only						
Configurations to be tested: mdl 40400: 20, 30, 40, & 60 Mbps							
Power Requirement							
	ng to be performed at typical power ratings in the countries of intended use. (i.e., European AC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)						
Voltage: 120	VAC (If battery powered, make sure battery life is sufficient to complete testing.)						
# of Phases: 1							
Current (Amps/phase	max)): 2.5 Current (Amps/phase(nominal)): 1						
Other:							
Other Special Requ	rements						
	and/or Operating Environment						
(ie. Hospital, Smal	Business, Industrial/Factory, etc.)						
Small business							
EUT Power Cable							
Shielded (DR ■ Removable Length (in meters): 1 to 100m DR ■ Unshielded						
(ie. Hospital, Small Small business EUT Power Cable Permanent	Business, Industrial/Factory, etc.) OR Removable Length (in meters): 1 to 100m						

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EUT Interface Ports and Cables											
Interface			Sh	ieldi	ng						
Туре	Analog	Digital	Ω ty	∀8 \$	S	Туре	Termination	Connector Type	Port Termination	Length (In meters)	Removable Pormanont
EXAMPLE: RS232		•	2	•		Foil over braid	Coaxial	Metallized 9- pin D-Sub	Characteristic Impedance	6	■ □
Cat5 UTP			1				Crimp	RJ-45	Cat-5	0	

EUT Software.

Revision Level: 4.6

Description: Software can be manually configured by an external computer to use the desired

frequency channel and modulation mode (QPSK, 8QAM, or 16QAM).

EUT Operating Modes to be Tested -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

- 1. QPSK-3/4 modulation (30Mbps mode): frequency channels 0, 3, & 5 (lowest, mid, highest)
- 2. 8QAM modulation (40Mbps mode): frequency channels 0, 3, & 5 (lowest, mid, highest)
- 3. 16QAM modulation (60Mbps mode): frequency channels 0, 3, & 5 (lowest, mid, highest)



EUT System C minimum config											. For FCC testing a erboard, etc.)		
Description						Model #			Se	rial #	FCC ID#		
Base Station						40400			1				
Axiom 3V GPS Antenna with SMA Coax ~15 Ft.													
Support Equip simulators, etc)		nt Lis	st and	desc	ribe al	Suppo	ort ed	quipment which	n is no	t part of the El	JT. (i.e. peripherals,		
Description				Мос	odel #			Serial #					
HP Omnibook laptop				4150			TW01400612	2					
Oscillator Free	alle	ncies											
Commuter 110	Derived												
Frequency	Fr	equenc	;y	Component # / Loca			ation	De	Description of Use				
					·								
Power Supply	Power Supply												
Manufacturer Model # Seri								Туре					
Skynet WLH-A			.07T 0011:			32458				mode: (Frequency)			
								Linear	Other				
Power Line Fi	lter	s											
Manufacturer Mo			Mod	del #				Location in EUT					
Critical EMI Co	omp	onents	s (Cap	oacito	rs, fe	rrites,	etc.)					
Description Mar				nufacturer			Part # or Value		Qty	Compon	ent # / Location		
EMC Critical D	EMC Critical Detail Describe other EMC Design details used to reduce high frequency noise.												
1										<u> </u>			



30 October 2001

Page 1 - Changes: Title; model number; company name; total pages

Page 6 - Changes: Test location; equipment and note

Page 17 - General Remarks TD2 - Ch 5 frequency

TD3 - Added attestation sheet for bandwidth test

TD4 - TD6 - Exchanged data records

Appendix C - Added page

23 March 2002

TD77 - TD94 - Added addition plots for out of band emissions. Test data provided by customer.